

Title (en)

CHANNEL ADJUSTMENT METHOD AND ELECTRONIC DEVICE

Title (de)

KANALANPASSUNGSVERFAHREN UND ELEKTRONISCHE VORRICHTUNG

Title (fr)

PROCÉDÉ DE RÉGLAGE DE CANAL ET DISPOSITIF ÉLECTRONIQUE

Publication

**EP 4181602 A1 20230517 (EN)**

Application

**EP 21850839 A 20210303**

Priority

- CN 202010740592 A 20200728
- CN 2021078935 W 20210303

Abstract (en)

This disclosure relates to a channel adjustment method and an electronic device. The electronic device includes one Wi-Fi chip and a first antenna and a second antenna connected to the Wi-Fi chip. The first antenna wirelessly communicates with another electronic device in a Wi-Fi P2P manner through a first channel. The second antenna wirelessly communicates with a first wireless signal source in a Wi-Fi AP manner through a second channel. After it is detected that the first channel and the second channel are two different channels on a same frequency band and time division multiplexing is performed on the first antenna and the second antenna, and a second wireless signal source whose frequency band is different from a frequency band of the first wireless signal source is detected within preset duration, the second channel is adjusted, so that an adjusted second channel and the first channel are different channels on different frequency bands, and the second antenna wirelessly communicates with the second wireless signal source in the Wi-Fi AP manner through the adjusted second channel. For the electronic device, user experience existing during screen projection and internet access can be improved by using the Wi-Fi chip and the two antennas.

IPC 8 full level

**H04W 72/04** (2023.01); **H04W 76/15** (2018.01)

CPC (source: CN EP US)

**H04W 72/044** (2013.01 - US); **H04W 72/0453** (2013.01 - CN EP); **H04W 72/53** (2023.01 - CN US); **H04W 76/15** (2018.01 - CN EP); **H04W 88/06** (2013.01 - EP); **H04W 72/40** (2023.01 - EP); **H04W 76/14** (2018.01 - EP); **H04W 76/23** (2018.01 - EP); **H04W 76/36** (2018.01 - EP); **H04W 84/12** (2013.01 - EP US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**EP 4181602 A1 20230517**; **EP 4181602 A4 20240117**; CN 112929972 A 20210608; CN 112929972 B 20220311; CN 114007267 A 20220201; JP 2023535966 A 20230822; US 2023269707 A1 20230824; WO 2022021878 A1 20220203

DOCDB simple family (application)

**EP 21850839 A 20210303**; CN 202010740592 A 20200728; CN 2021078935 W 20210303; CN 202110146564 A 20200728; JP 2023506064 A 20210303; US 202118007279 A 20210303